

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P481148

Luminaire Tested: **IFLD-L-SA7D-722-U-RW**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481148  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7D-722-U-RW  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens  
Light Source: (112) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

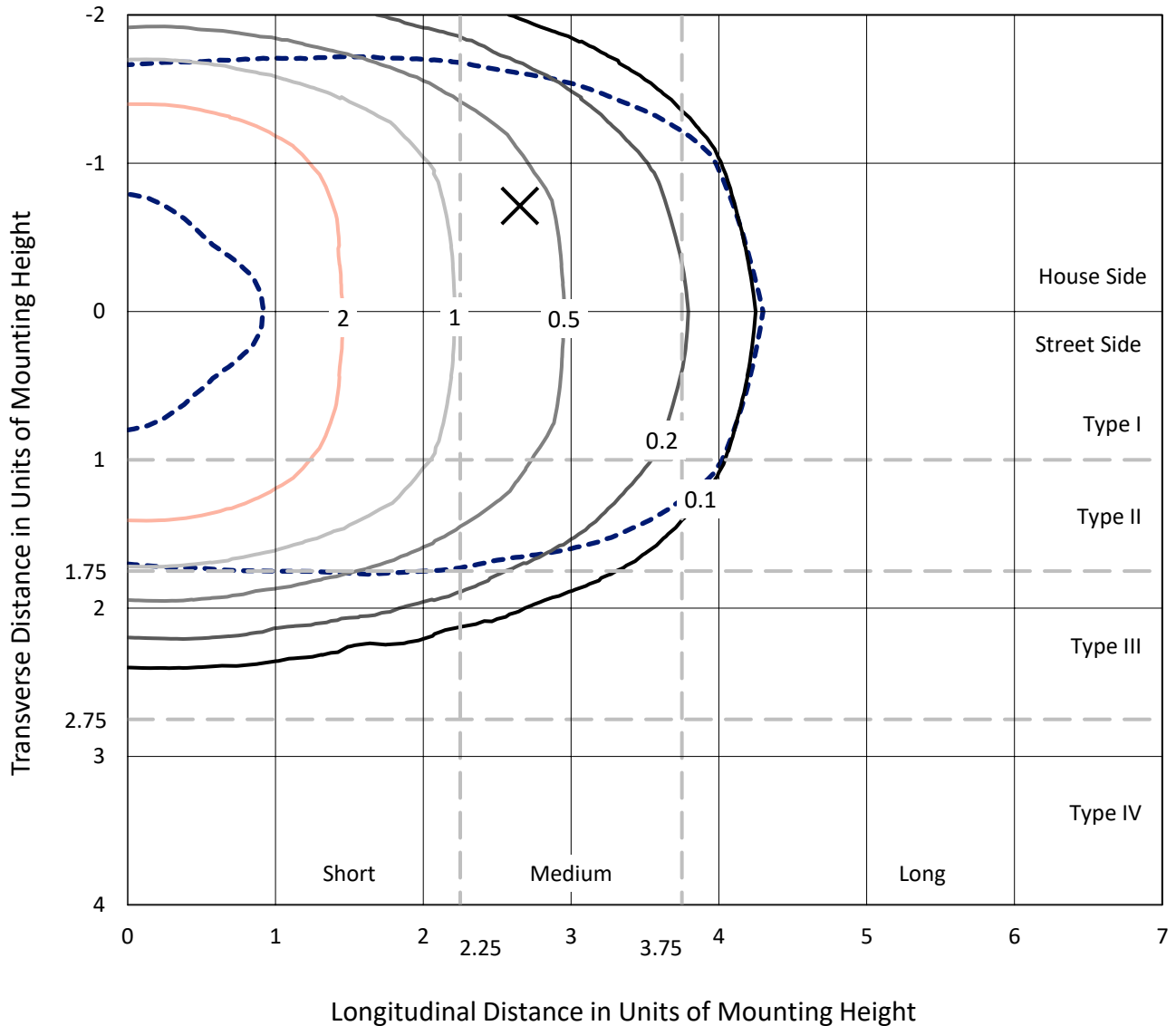
Lumens per Lamp: N/A  
Luminaire Lumens: 37009.6 lumens  
Efficiency: N/A  
Efficacy: 87.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B5 - U0 - G5

Input Watts (W): 422.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Iso-Footcandle Lines of Horizontal Illumination

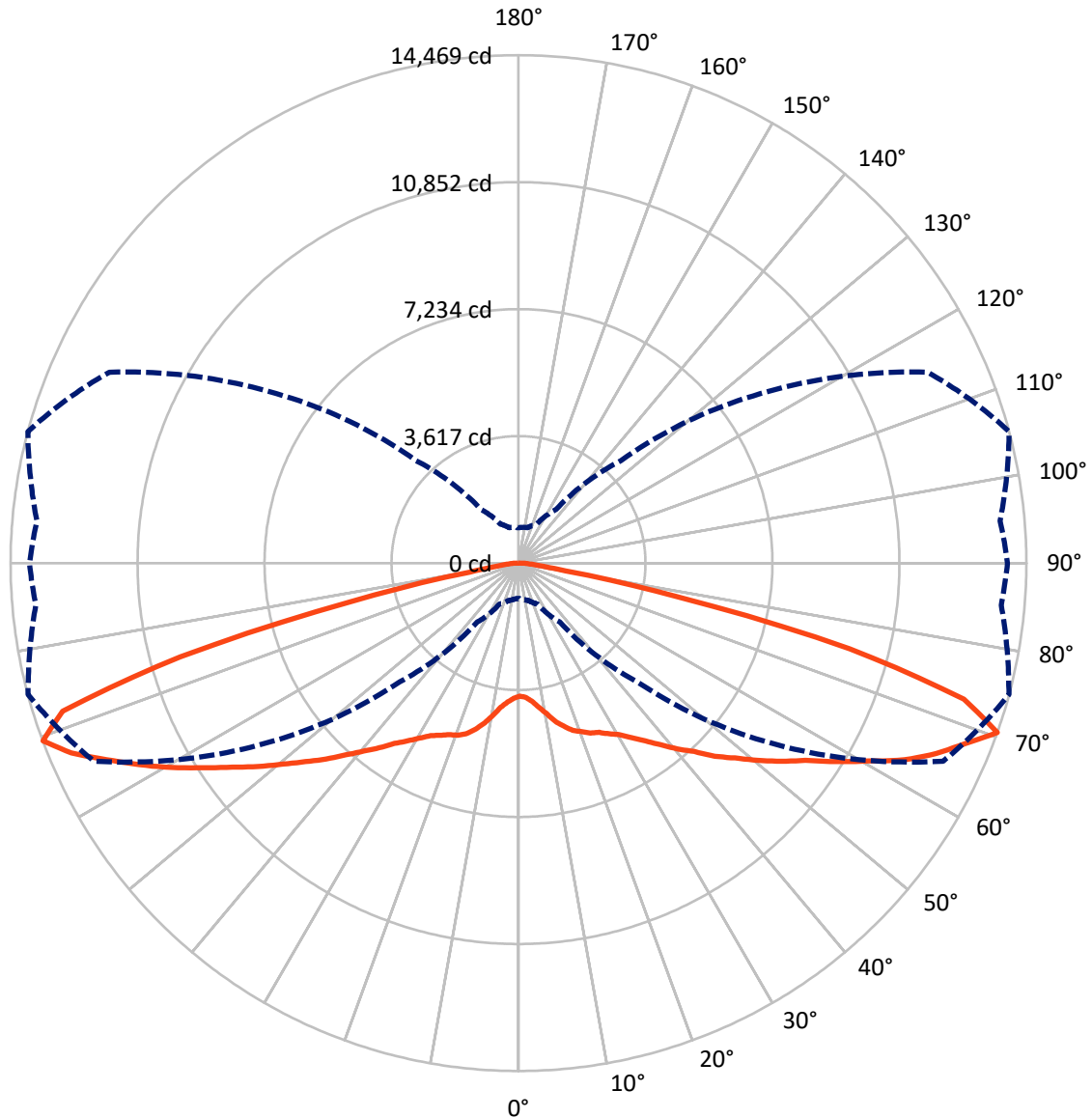
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5 fc  
 Type II - Short - N/A

REPORT NUMBER: P481148  
CATALOG NUMBER: IFLD-L-SA7D-722-U-RW

### Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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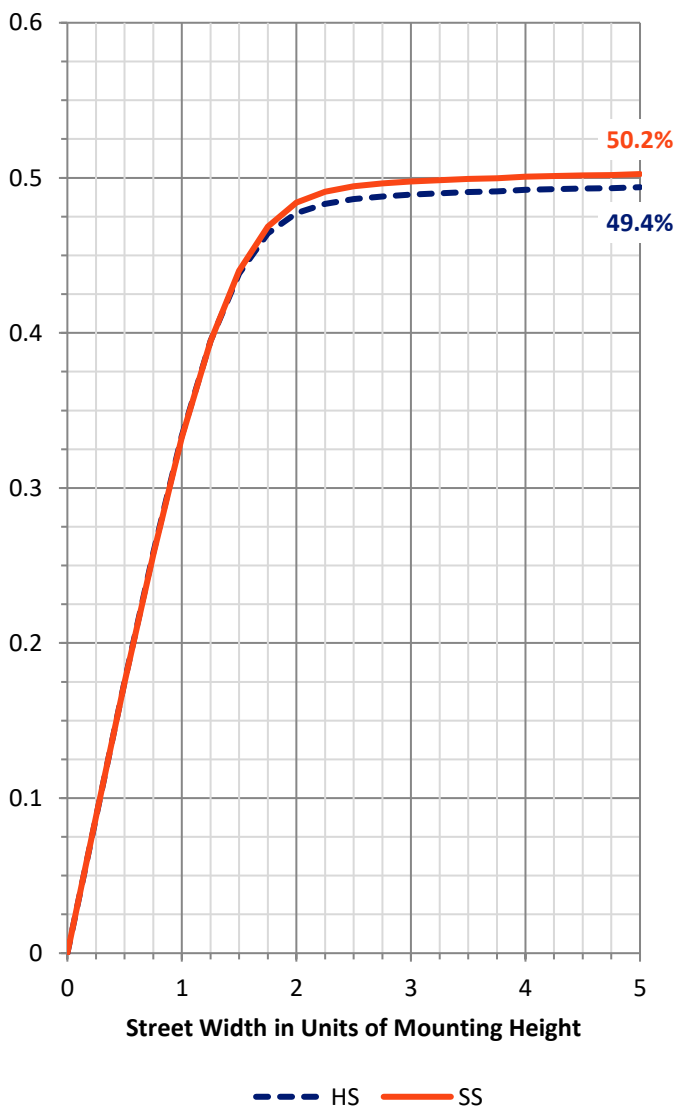
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	18373.1	0.0	18373.1
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	18636.4	0.0	18636.4
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	37009.6	0.0	37009.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	377.2	1.0
10°-20°	1284.4	3.5
20°-30°	2486.9	6.7
30°-40°	4206.5	11.4
40°-50°	6710.6	18.1
50°-60°	9185.3	24.8
60°-70°	8657.8	23.4
70°-80°	3814.0	10.3
80°-90°	287.0	0.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	37009.6	100.0
0°-180°	37009.6	100.0

**Coefficient of Utilization**



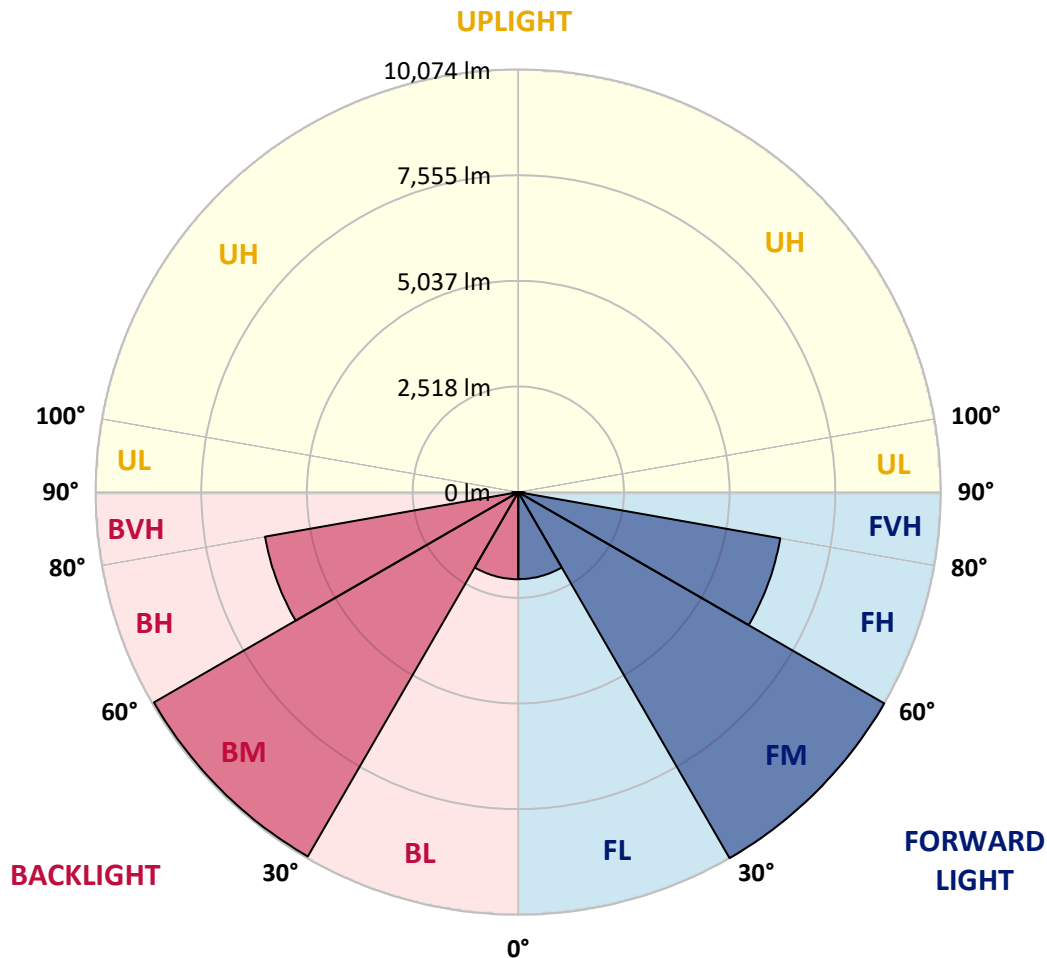
REPORT NUMBER: P481148  
 CATALOG NUMBER: IFLD-L-SA7D-722-U-RW

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2073.1	5.6			
FM (30°-60°)	10073.7	27.2			
FH (60°-80°)	6343.0	17.1			G3/7500
FVH (80°-90°)	146.6	0.4			G2/225
BL (0°-30°)	2075.4	5.6	B3/2500		
BM (30°-60°)	10028.7	27.1	B5		
BH (60°-80°)	6128.7	16.6	B5		G5
BVH (80°-90°)	140.4	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**

Type II Short





REPORT NUMBER: P481148

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3789.7	3789.7	3789.7	3789.7	3789.7	3789.7	3789.7	3789.7	3789.7	3789.7	3789.7
2.5°	3765.8	3765.8	3761.8	3781.8	3801.7	3809.7	3825.6	3829.6	3853.6	3833.6	3873.5
5°	3753.8	3749.9	3781.8	3829.6	3829.6	3881.5	3913.4	3957.3	3969.3	3993.2	4001.2
7.5°	3837.6	3829.6	3813.7	3865.5	3909.4	3989.2	4033.1	4108.9	4136.8	4168.7	4204.6
10°	3889.5	3889.5	3873.5	3965.3	4005.2	4112.9	4208.6	4284.4	4392.1	4428.0	4432.0
12.5°	3897.5	3909.4	3957.3	4077.0	4188.7	4328.3	4400.1	4543.7	4651.4	4719.2	4743.2
15°	4017.1	3993.2	4045.1	4208.6	4372.2	4495.8	4623.5	4727.2	4882.8	4970.5	5026.4
17.5°	4124.8	4100.9	4196.6	4392.1	4559.7	4751.1	4862.8	4974.5	5086.2	5166.0	5170.0
20°	4296.4	4316.3	4400.1	4611.5	4830.9	4998.5	5126.1	5146.1	5201.9	5317.6	5297.7
22.5°	4507.8	4491.8	4667.4	4898.7	5138.1	5277.7	5349.5	5297.7	5269.7	5393.4	5421.3
25°	4719.2	4767.1	4926.7	5142.1	5429.3	5616.8	5636.7	5493.1	5389.4	5433.3	5421.3
27.5°	5042.4	5050.3	5217.9	5473.2	5764.4	5928.0	5916.0	5712.5	5513.1	5517.1	5525.0
30°	5457.2	5417.3	5600.8	5832.2	6119.4	6267.0	6287.0	5995.8	5728.5	5648.7	5668.7
32.5°	5856.2	5904.0	6063.6	6326.9	6538.3	6622.1	6578.2	6318.9	5971.8	5864.1	5876.1
35°	6366.8	6358.8	6578.2	6801.6	6961.2	6977.1	6941.2	6562.2	6235.1	6095.5	6039.7
37.5°	6913.3	6985.1	7128.7	7312.2	7479.8	7487.7	7292.3	6989.1	6586.2	6354.8	6422.6
40°	7523.6	7603.4	7707.1	7974.4	8098.1	7970.4	7771.0	7360.1	6941.2	6737.8	6769.7
42.5°	8062.2	8098.1	8309.5	8624.7	8684.5	8628.6	8333.4	7834.8	7348.1	7124.7	7140.7
45°	8556.8	8604.7	8880.0	9163.2	9302.8	9207.1	8864.0	8389.3	7822.8	7631.3	7555.6
47.5°	9011.6	9107.4	9374.6	9665.8	9881.3	9889.2	9466.4	8891.9	8293.6	8042.2	8038.2
50°	9318.8	9458.4	9721.7	10052.8	10367.9	10491.6	10068.7	9450.4	8808.2	8540.9	8513.0
52.5°	9486.3	9629.9	9893.2	10407.8	10758.9	10950.4	10750.9	9973.0	9410.5	9131.3	9087.4
55°	9282.9	9378.6	9809.5	10531.5	11074.0	11389.2	11257.5	10695.1	10008.9	9781.5	9821.4
57.5°	8417.2	8616.7	9147.2	10048.8	11066.0	11840.0	11828.0	11377.2	10699.0	10483.6	10491.6
60°	6929.2	7096.8	7751.0	9011.6	10619.3	12023.5	12446.3	12039.4	11472.9	11221.6	11213.7
62.5°	4890.8	5102.2	5860.1	7236.4	9302.8	11768.1	13156.4	12873.2	12230.9	12047.4	12115.2
65°	2736.6	2864.2	3566.3	4811.0	7088.8	10363.9	13284.0	13738.8	13000.8	12721.6	12733.5
67.5°	1464.0	1511.9	1839.0	2525.2	4336.3	7990.4	11995.5	14237.5	13834.6	13351.9	13276.1
70°	1005.3	1021.2	1105.0	1292.5	2050.5	4779.1	9047.5	13347.9	14460.9	13802.6	13930.3
72.5°	849.7	841.7	861.7	881.6	1073.1	2138.2	5309.6	10272.2	13651.1	13403.7	13355.9
75°	738.0	734.0	742.0	722.0	746.0	941.5	2349.6	6402.7	9993.0	11153.8	11333.3
77.5°	610.3	614.3	618.3	598.4	590.4	622.3	945.4	2812.4	4918.7	5429.3	5856.2
80°	462.7	470.7	502.6	482.7	450.8	454.8	558.5	941.5	1412.2	1280.5	1320.4
82.5°	315.1	319.1	387.0	363.0	339.1	307.2	359.0	486.7	550.5	418.9	367.0
85°	223.4	219.4	251.3	231.4	215.4	155.6	215.4	275.3	331.1	207.4	187.5
87.5°	51.9	51.9	103.7	83.8	79.8	63.8	83.8	107.7	143.6	91.8	83.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3789.7	3789.7	3789.7	3789.7	3789.7	3789.7	3789.7	3789.7	3789.7	3789.7
2.5°	3861.5	3825.6	3825.6	3817.7	3785.8	3777.8	3749.9	3757.8	3737.9	3717.9
5°	3997.2	3949.3	3949.3	3881.5	3817.7	3809.7	3777.8	3777.8	3745.9	3753.8
7.5°	4184.7	4140.8	4069.0	4009.1	3921.4	3885.5	3825.6	3817.7	3809.7	3793.7
10°	4408.1	4352.2	4280.4	4156.7	4084.9	4017.1	3957.3	3873.5	3853.6	3857.6
12.5°	4711.2	4623.5	4467.9	4360.2	4268.4	4180.7	4092.9	3969.3	3941.3	3953.3
15°	4926.7	4815.0	4659.4	4619.5	4495.8	4388.1	4244.5	4104.9	4057.0	4045.1
17.5°	5102.2	5010.4	4918.7	4858.8	4759.1	4627.5	4428.0	4268.4	4160.7	4148.8
20°	5245.8	5126.1	5106.2	5142.1	5018.4	4930.7	4687.3	4491.8	4348.2	4288.4
22.5°	5333.6	5257.8	5313.6	5345.5	5337.6	5190.0	4938.6	4711.2	4531.7	4475.9
25°	5429.3	5341.5	5541.0	5648.7	5676.6	5433.3	5237.8	4938.6	4763.1	4727.2
27.5°	5477.2	5509.1	5740.5	5967.8	5947.9	5760.4	5497.1	5229.8	5090.2	5026.4
30°	5616.8	5668.7	6019.7	6275.0	6279.0	6095.5	5896.0	5592.9	5437.3	5409.4
32.5°	5868.1	5931.9	6306.9	6578.2	6626.1	6486.4	6287.0	6099.5	5939.9	5876.1
35°	6059.6	6223.2	6646.0	6893.3	7021.0	6937.2	6825.5	6630.1	6462.5	6406.7
37.5°	6334.9	6562.2	6969.1	7304.2	7447.8	7439.9	7356.1	7144.7	7005.0	6957.2
40°	6729.8	6957.2	7328.2	7771.0	8038.2	8026.3	7978.4	7814.8	7607.4	7583.5
42.5°	7148.7	7336.1	7818.8	8325.5	8708.4	8668.5	8540.9	8349.4	8205.8	8173.9
45°	7555.6	7846.8	8293.6	8943.8	9231.0	9330.7	9179.2	8852.0	8688.5	8668.5
47.5°	8066.2	8297.5	8856.0	9438.5	9865.3	9881.3	9622.0	9318.8	9019.6	9083.4
50°	8520.9	8828.1	9394.6	10032.8	10543.5	10360.0	10028.9	9649.9	9434.5	9350.7
52.5°	9007.6	9382.6	10040.8	10691.1	10974.3	10790.8	10252.3	9829.4	9502.3	9466.4
55°	9717.7	9913.2	10774.8	11273.5	11365.2	10978.3	10184.4	9586.1	9163.2	9059.5
57.5°	10439.7	10667.1	11421.1	11851.9	11756.2	10874.6	9745.6	8820.1	8265.6	8118.0
60°	11169.8	11449.0	12083.3	12478.2	11983.6	10160.5	8505.0	7312.2	6666.0	6534.3
62.5°	11983.6	12346.6	12913.1	13052.7	11309.4	8748.3	6749.7	5277.7	4623.5	4404.1
65°	12705.6	13076.6	13774.7	12933.0	9877.3	6526.3	4364.2	3015.8	2533.1	2357.6
67.5°	13300.0	13718.9	14061.9	11445.0	7232.4	3821.7	2273.8	1587.7	1408.2	1344.4
70°	13770.7	14468.8	12865.2	8413.2	4132.8	1863.0	1228.7	1045.2	1021.2	1005.3
72.5°	13359.8	13268.1	9606.0	4854.9	1811.1	1025.2	889.6	861.7	857.7	861.7
75°	10926.4	9745.6	5744.5	2110.3	909.5	742.0	738.0	726.0	746.0	746.0
77.5°	5301.7	4635.5	2401.5	905.5	598.4	582.4	602.4	602.4	602.4	602.4
80°	1228.7	1360.3	857.7	550.5	434.8	434.8	478.7	482.7	462.7	454.8
82.5°	418.9	558.5	470.7	347.1	287.2	323.1	363.0	371.0	307.2	311.2
85°	207.4	327.1	255.3	199.5	147.6	199.5	235.4	247.3	211.4	203.4
87.5°	95.7	143.6	95.7	67.8	51.9	71.8	67.8	55.8	31.9	31.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)